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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/083,280	02/25/2002	Shigeru Sugaya	7217/66556	4162
7:	590 11/29/2005		EXAMINER	
COOPER & DUNHAM LLP		TRAN, THIEN D		
1185 Avenue of the Americas New York, NY 10036			ART UNIT	PAPER NUMBER
11011 10111, 111			2665	

DATE MAILED: 11/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			M
	Application No.	Applicant(s)	M
	10/083,280	SUGAYA, SHIGERU	
Office Action Summary	Examiner	Art Unit	<del></del>
<u> </u>	Thien D. Tran	2665	
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet	with the correspondence addre	SS
A SHORTENED STATUTORY PERIOD FOR I WHICHEVER IS LONGER, FROM THE MAILI  - Extensions of time may be available under the provisions of 37 after SiX (6) MONTHS from the mailing date of this communicated if NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, be any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUI CFR 1.136(a). In no event, however, may tion. period will apply and will expire SIX (6) M y statute, cause the application to become	NICATION.  a reply be timely filed  ONTHS from the mailing date of this comm ABANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed or	25 February 2002.		
2a) This action is FINAL. 2b) ∑	This action is non-final.		•
3) Since this application is in condition for a	illowance except for formal m	atters, prosecution as to the mo	erits is
closed in accordance with the practice u	nder <i>Ex parte Quayl</i> e, 1935 C	S.D. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-9</u> is/are pending in the applica	ation.		
4a) Of the above claim(s) is/are wi	thdrawn from consideration.		
5)⊠ Claim(s) 2,6 and 8 is/are allowed.			
6)⊠ Claim(s) <u>1,4,5,7 and 9</u> is/are rejected.			
7) Claim(s) $\underline{3}$ is/are objected to.			
8) Claim(s) are subject to restriction	and/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Ex	aminer.		
10)☐ The drawing(s) filed on is/are: a)☐	☐ accepted or b)☐ objected t	to by the Examiner.	
Applicant may not request that any objection	to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the	correction is required if the drawi	ng(s) is objected to. See 37 CFR 1	I.121(d).
11)☐ The oath or declaration is objected to by t	the Examiner. Note the attach	ed Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents.</li> <li>2. Certified copies of the priority documents.</li> </ul>	uments have been received.		
3. Copies of the certified copies of the	e priority documents have bee	en received in this National Sta	ge
application from the International E	Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for	a list of the certified copies no	ot received.	
Attachment(s)			
1) ⊠ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-94		v Summary (PTO-413) o(s)/Mail Date	
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/5 Paper No(s)/Mail Date</li> </ol>		f Informal Patent Application (PTO-152	2)

## **DETAILED ACTION**

#### Claim Rejections - 35 USC § 103

1. Claim 1, 4, 5, 7, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buskens et al (U.S Patent No.5,905,871).

Regarding claim 1, Buskens discloses a radio transmission method for transmitting a packet from a transmission apparatus serving as an information transmitter (S, col.3 lines 1-10) to a transmission apparatus serving as an information receiver (R or DR, col.3 lines 1-10), returning receipt acknowledging information of a received packet from said radio transmission apparatus serving as said information receiver to said radio transmission apparatus serving as said information transmitter after transmission of information (ACK, col.3 lines 50-60), and retransmitting an unreceived packet from said radio transmission apparatus serving as said information transmitter to said radio transmission apparatus serving as said information receiver in a wireless network (col.4 lines 30-40), said wireless network being formed with a plurality of transmission apparatus serving as communication stations, said radio transmission method comprising the steps of:

on a side of said radio transmission apparatus serving as said information transmitter, setting a predetermined transmission frame cycle (time interval T-d, col.7 line 49);

presetting a frame cycle for retransmission (T-retx, col.7 line 65, figure 20); and

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automatically retransmitting only a packet whose receipt acknowledging information has not been received on arrival of said frame cycle for retransmission (col.7 lines 60-64).

Regarding claim 4, Buskens discloses the predetermined number of retransmissions are set, and then retransmission is made said number of retransmissions (number of packets in the retransmit queue, col.5 line 65).

Regarding claim 5, Buskens discloses a frame cycle for discarding unreceived packets is preset, and a packet whose receipt acknowledging information has not been returned until said frame cycle is discarded (col.8 lines 40-65).

Regarding claim 7, Buskens discloses transmission apparatus for transmitting information in a network, said network being formed with a plurality of communication apparatus serving as communication stations, said radio transmission apparatus comprising:

packetizing means for packetizing asynchronous information into packets as predetermined information units on said wireless network (col.5 lines 5-10);

transmitting means for transmitting said packets under predetermined access control (control scheduling, figures 14 and 15);

receiving means for receiving receipt acknowledging information from a radio transmission apparatus serving as an information receiver (ACK, col.3 lines 50-60);

frame cycle setting means for setting a predetermined transmission frame cycle; timing means for timing said frame cycle (time interval T-d, col.7 line 49);

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retransmission frame cycle setting means for presetting a frame cycle for retransmission (T-retx, col.7 line 65, figure 20); and

retransmitting means for automatically retransmitting only a packet whose receipt acknowledging information has not been received on arrival of said frame cycle for retransmission (col.7 lines 60-64).

Regarding claim 9, Buskens discloses a radio transmission apparatus for transmitting information in a network, said network being formed with a plurality of communication apparatus serving as communication stations, said radio transmission apparatus comprising:

packetizing means for packetizing asynchronous information into packets as predetermined information units on said wireless network (col.5 lines 5-10);

transmitting means for transmitting said packets under predetermined access control (control scheduling, figures 14 and 15);

receiving means for receiving receipt acknowledging information from a radio transmission apparatus serving as an information receiver (ACK, col.3 lines 50-60);

frame cycle setting means for setting a predetermined transmission frame cycle; timing means for timing said frame cycle (time interval T-d, col.7 line 49);

discarding frame cycle setting means for presetting a frame cycle for discarding packets (col.8 lines 40-65); and

discarding means for discarding a packet whose receipt acknowledging information has not been received on arrival of said frame cycle for discarding packets (col.8 lines 40-65).

Buskens does not disclose that a wireless network in his apparatus. However, it would have been obvious to one having ordinary skill in the art to have the feature of wireless network used in Buskens' apparatus because it is a matter of obvious design choice.

### Allowable Subject Matter

- 2. Claims 2, 6, 8 are allowed.
- 3. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

4. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Thien Tran whose telephone number is (571) 272-3156. The examiner can normally be reached on Monday-Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (571) 272-3155. Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should

you have any questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197.

Patent Examiner

Thien Tran

Luchute - 05